

Title (en)

Method and processing arrangement for joint processing of uplink data

Title (de)

Verfahren und Verarbeitungsanordnung zur gemeinsamen Verarbeitung von Uplink-Daten

Title (fr)

Procédé et arrangement de traitement pour le traitement conjoint de données en voie montante

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Application

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Priority

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Abstract (en)

The invention relates to a method for joint processing of uplink data ($g(n)$, $s(n)$) transmitted from at least one user equipment (UE1, UE2) to a plurality of coordinated reception points (BS A, BS B) of a wireless communication system (1), the method comprising: estimating and preferably compensating for individual propagation delays of the uplink data ($g(n)$, $s(n)$) transmitted from one of the user equipments (UE1, UE2) to the coordinated reception points (BS A, BS B), and compensating a timing difference between a propagation delay of a coordinated reception point (BS A, BS B) which serves the user equipment (UE1, UE2) and at least one propagation delay of at least one coordinated reception point (BS B, BS A) which does not serve the user equipment (UE1, UE2) for performing the joint processing of the uplink data ($g(n)$, $s(n)$), wherein the step of compensating the timing difference comprises modifying a channel matrix (H) associated with uplink channels from the at least one user equipment (UE1, UE2) to the coordinated reception points (BS A, BS B). The invention also relates to a processing arrangement (BS A, BS B, 2) adapted for performing the method.

IPC 8 full level

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